

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/818,918

DATE: 04/18/2001

TIME: 16:43:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04182001\I818918.raw

ENTERED

4 <110> APPLICANT: Krieg, Arthur M.
5 Kline, Joel N.
6 Klinman, Dennis
7 Steinberg, Alfred D.
9 <120> TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
12 <130> FILE REFERENCE: C1039/7048 (AWS)
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/818,918
C--> 14 <141> CURRENT FILING DATE: 2001-03-27
14 <150> PRIOR APPLICATION NUMBER: US 08/276,358
15 <151> PRIOR FILING DATE: 1994-07-15
17 <150> PRIOR APPLICATION NUMBER: US 08/386,063
18 <151> PRIOR FILING DATE: 1995-02-07
20 <150> PRIOR APPLICATION NUMBER: US 08/738,652
21 <151> PRIOR FILING DATE: 1996-10-30
23 <160> NUMBER OF SEQ ID NOS: 56
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28 <211> LENGTH: 20
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
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33 <223> OTHER INFORMATION: Synthetic oligonucleotide
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36 atggaagggtc cagtgttctc----- 20
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41 <213> ORGANISM: Artificial Sequence
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51 <212> TYPE: DNA
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61 <211> LENGTH: 15
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Synthetic oligonucleotide
68 <400> SEQUENCE: 4

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74 <213> ORGANISM: Artificial Sequence	
76 <220> FEATURE:	
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79 <400> SEQUENCE: 5	
80 gagaacgtcg accttcgat	19
82 <210> SEQ ID NO: 6	
83 <211> LENGTH: 15	
84 <212> TYPE: DNA	
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87 <220> FEATURE:	
88 <223> OTHER INFORMATION: Synthetic oligonucleotide	
90 <400> SEQUENCE: 6	
91 gcatgacgtt gagct	15
93 <210> SEQ ID NO: 7	
94 <211> LENGTH: 20	
95 <212> TYPE: DNA	
96 <213> ORGANISM: Artificial Sequence	
98 <220> FEATURE:	
99 <223> OTHER INFORMATION: Synthetic oligonucleotide	
101 <400> SEQUENCE: 7	
102 tccatgacgt tcctgatgct	20
104 <210> SEQ ID NO: 8	
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106 <212> TYPE: DNA	
107 <213> ORGANISM: Artificial Sequence	
109 <220> FEATURE:	
110 <223> OTHER INFORMATION: Synthetic oligonucleotide	
112 <400> SEQUENCE: 8	
113 tccatgagct tcctgagtct	20
115 <210> SEQ ID NO: 9	
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117 <212> TYPE: DNA	
118 <213> ORGANISM: Artificial Sequence	
120 <220> FEATURE:	
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123 <400> SEQUENCE: 9	
124 tccaagacgt tcctgatgct	20
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128 <212> TYPE: DNA	
129 <213> ORGANISM: Artificial Sequence	
131 <220> FEATURE:	
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139 <212> TYPE: DNA
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146   tccatgagct tcctgagtgc t
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 20
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Synthetic oligonucleotide
156 <400> SEQUENCE: 12
157   ggggtcaacg ttgagggggg
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161 <212> TYPE: DNA
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167 <400> SEQUENCE: 13
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172 <212> TYPE: DNA
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178 <221> NAME/KEY: modified_base
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180 <223> OTHER INFORMATION: m5c
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187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic oligonucleotide
193 <221> NAME/KEY: modified_base
194 <222> LOCATION: (7)...(7)
195 <223> OTHER INFORMATION: m5c
197 <221> NAME/KEY: modified_base
198 <222> LOCATION: (13)...(13)
199 <223> OTHER INFORMATION: m5c
201 <400> SEQUENCE: 15
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204 <210> SEQ ID NO: 16
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 215 <210> SEQ ID NO: 17
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 217 <212> TYPE: DNA
 218 <213> ORGANISM: Artificial Sequence
 220 <220> FEATURE:
 221 <223> OTHER INFORMATION: Synthetic oligonucleotide
 223 <400> SEQUENCE: 17
 224 atggaaggctc cagcgttctc 20
 226 <210> SEQ ID NO: 18
 227 <211> LENGTH: 20
 228 <212> TYPE: DNA
 229 <213> ORGANISM: Artificial Sequence
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 234 <400> SEQUENCE: 18
 235 atcgactctc gagcgttctc 20
 237 <210> SEQ ID NO: 19
 238 <211> LENGTH: 20
 239 <212> TYPE: DNA
 240 <213> ORGANISM: Artificial Sequence
 242 <220> FEATURE:
 243 <223> OTHER INFORMATION: Synthetic oligonucleotide
 245 <221> NAME/KEY: modified_base
 246 <222> LOCATION: (3)...(3) ✓
 247 <223> OTHER INFORMATION: m5c
 249 <221> NAME/KEY: modified_base
 250 <222> LOCATION: (10)...(10) ✓
 251 <223> OTHER INFORMATION: m5c
 253 <221> NAME/KEY: modified_base
 254 <222> LOCATION: (14)...(14), ✓
 255 <223> OTHER INFORMATION: m5c
 257 <400> SEQUENCE: 19
 258 atcgactctc gagcgttctc 20
 260 <210> SEQ ID NO: 20
 261 <211> LENGTH: 20
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Artificial Sequence
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: Synthetic oligonucleotide
 268 <221> NAME/KEY: modified_base
 269 <222> LOCATION: (3)...(3)

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270 <223> OTHER INFORMATION: m5c
272 <400> SEQUENCE: 20
273 atcgactctc gacggttctc
275 <210> SEQ ID NO: 21
276 <211> LENGTH: 20
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
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283 <221> NAME/KEY: modified_base
284 <222> LOCATION: (18)...(18)
285 <223> OTHER INFORMATION: m5c
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290 <210> SEQ ID NO: 22
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292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Synthetic oligonucleotide
298 <400> SEQUENCE: 22
299 atggaaggctc caacgttctc
301 <210> SEQ ID NO: 23
302 <211> LENGTH: 20
303 <212> TYPE: DNA
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307 <223> OTHER INFORMATION: Synthetic oligonucleotide
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310 gagaacgctg gaccttccat
312 <210> SEQ ID NO: 24
313 <211> LENGTH: 20
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Synthetic oligonucleotide
320 <400> SEQUENCE: 24
321 gagaacgctc gaccttccat
323 <210> SEQ ID NO: 25
324 <211> LENGTH: 20
325 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Synthetic oligonucleotide
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335 <211> LENGTH: 20
336 <212> TYPE: DNA

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/818,918

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Input Set : A:\Seqlist.txt

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date